SIEMENS

Data sheet

6GT2891-4EH50

product type designation product description

Cable RS422, wire end sleeves / M12

Highly flexible communication line (6-core)

SIMATIC RF, MV plug-in cable, with bare end, between ASM 475 and reader, or 24 V cable for RF61XR, RF650R, RF68XR, PUR, trailing, length 5 m.



cable designation L-YC11Y 6x1x0 25 6x24AWG CM wire length 5 m number of electrical connections 2 type of electrical connection wire end sleeves (labeled) / M12 (female, 8 pin, straight) loop resistance coefficient 20 G2/m oparating voltage	suitability for use	Plug-in cable for connecting a reader to the ASM 475 communication module or 24V power supply of the RF61xR, RF650R and RF68xR readers
oldectrical data 2 number of electrical connections 2 type of electrical connection wire end sleeves (labeled) / M12 (female, 8 pin, straight) loop resistance per length / maximum 160 mO/m insulation resistance coefficient 20 GQ·m operating voltage - • maximum 300 V mechanical data - number of electrical cores 6 design of the shield Datable shield ande of tin-plated copper wires outer diameter - • of cable sheath 5.4 mm symmetrical tolerance of the outer diameter / of cable sheath 0.2 mm material - • of cable sheath PUC • of cable sheath PUR color - • of the wire insulation of data wires DIN 47100 • of cable sheath Black bending radius - • with multiple bends / minimum permissible 21.6 mm • with number of bending cycles 3000000 tensile load / maximum 200 N weight per length 45	cable designation	L-YC11Y 6x1x0.25 6x24AWG CM
number of electrical connections 2 type of electrical connection wire end sleeves (labeled) / M12 (female, 8 pin, straight) loop resistance coefficient 20 GQ-m operating voltage 300 V • maximum 300 V mochanical data 1 number of electrical cores 6 design of the shield Braided shield made of tin-plated copper wires outer diameter - - of cable sheath 5.4 mm symmetrical tolerance of the outer diameter / of cable sheath 0.2 mm material - - of cable sheath PUR color - - of the insulation of data wires DIN 47100 - of cable sheath Black bending radius - - with single bend / minimum permissible 21.6 mm - with continuous bending 75 mm - mumber of bending cycles 3000000 tensile load / maximum 200 N weight per length 45 kg/km ensilitor of data wires - - oding operation -30 +80 °C	wire length	5 m
type of electrical connection wire end sleeves (labeled) / M12 (female, 8 pin, straight) loop resistance per length / maximum 160 m0/m insulation resistance coefficient 20 GΩm operating voltage - • maximum 300 V rmechanical data - number of electrical cores 6 design of the shield Braided shield made of tin-plated copper wires outer diameter - • of cable sheath 5.4 mm symmetrical tolerance of the outer diameter / of cable sheath 0.2 mm • of the wire insulation PVC • of able sheath PUR color - • of the insulation of data wires DIN 47100 • of able sheath Black bending radius - • with single bend / minimum permissible 21.6 mm • with ortinuous bending 75 mm number of elengheration 200 N weight per length 45 kg/km ambient temperature - • during storage -30 +80 °C • during installation	electrical data	
loop resistance per length / maximum 160 mΩ/m insulation resistance coefficient 20 GΩ·m operating voltage	number of electrical connections	2
Insulation resistance coefficient 20 GO:m operating voltage 300 V mechanical data mother of electrical cores 6 design of the shield Braided shield made of tin-plated copper wires outer diameter - of cable sheath 5.4 mm symmetrical tolerance of the outer diameter / of cable sheath 0.2 mm material - of the insulation PVC of cable sheath PUR color - of acable sheath Black bending radus - with nultiple bend / minimum permissible 21.6 mm with nultiple bend / minimum permissible 43 mm with nultiple bend / minimum permissible 44 mm with ontinuous bending 75 mm number of bending cycles 3000000 tensile load / maximum 200 N weight per length 45 kg/km ambient conditions -30 +80 °C -during operation -30 +80 °C -during installation -30 +80 °C -during installation -30 +80 °C -during installation	type of electrical connection	wire end sleeves (labeled) / M12 (female, 8 pin, straight)
operating voltage 300 V mechanical data	loop resistance per length / maximum	160 mΩ/m
• maximum 300 V mechanical data • number of electrical cores 6 design of the shield Braided shield made of tin-plated copper wires outer diameter • • of cable sheath 5.4 mm symmetrical tolerance of the outer diameter / of cable sheath 0.2 mm material 0.2 mm • of the wire insulation PVC • of cable sheath PUR color • • of the insulation of data wires DIN 47100 • of cable sheath Black bending radius • • with single bend / minimum permissible 21.6 mm • with single bend / minimum permissible 43 mm • with ontinuous bending 75 mm number of bending cycles 3000000 tensile load / maximum 200 N weight per length 45 kg/km ambient conditions -30 +80 °C • during staragentica -30 +80 °C • during installation -30 +80 °C • during installation -30 +80 °C • during installation -30 +80 °C	insulation resistance coefficient	20 GΩ·m
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number of electrical cores 6 design of the shield Braided shield made of tin-plated copper wires outer diameter - • of cable sheath 5.4 mm symmetrical tolerance of the outer diameter / of cable sheath 0.2 mm material - • of the wire insulation PVC • of cable sheath PUR color - • of the insulation of data wires DIN 47100 • of cable sheath Black bending radius - • with single bend / minimum permissible 21.6 mm • with outpipe bends / minimum permissible 43 mm • with continuous bending 75 mm number of bending cycles 30000000 tensile load / maximum 200 N weight per length 45 kg/km ambient conditions - ambient temperature -30 +80 °C • during transport -30 +80 °C • during installation -30 +80 °C • during installation -30 +80 °C	• maximum	300 V
design of the shield Braided shield made of tin-plated copper wires outer diameter - • of cable sheath 5.4 mm symmetrical tolerance of the outer diameter / of cable sheath 0.2 mm material - • of the wire insulation PVC • of cable sheath PUR color - • of the insulation of data wires DIN 47100 • of cable sheath Black bending radius - • with single bend / minimum permissible 21.6 mm • with continuous bending 75 mm number of bending cycles 3000000 tensile load / maximum 200 N weight per length 45 kg/km ambient conditions -30 +80 °C • during torage -30 +80 °C • during installation -30 +80 °C • during installation -30 +80 °C • during installation -30 +80 °C	mechanical data	
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• of cable sheath5.4 mmsymmetrical tolerance of the outer diameter / of cable sheath0.2 mmmaterial• Of the wire insulation• of the wire insulationPVC• of cable sheathPURcolor• Of cable sheath• of the insulation of data wiresDIN 47100• of cable sheathBlackbending radius• With single bend / minimum permissible• with single bend / minimum permissible21.6 mm• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient temperature-30 +80 °C• during storage-30 +80 °C• during installation-30 +80 °C• during installation-30 +80 °C• during installation-30 +80 °C• fre behaviorflame resistant according to IEC 60332-1-2	design of the shield	Braided shield made of tin-plated copper wires
symmetrical tolerance of the outer diameter / of cable sheath 0.2 mm material • of the wire insulation PVC • of cable sheath PUR color • of the insulation of data wires DIN 47100 • of cable sheath Black bending radius • vith single bend / minimum permissible 21.6 mm • with nultiple bend / minimum permissible 43 mm • with continuous bending 75 mm number of bending cycles 3000000 tensile load / maximum 200 N weight per length 45 kg/km ambient conditions -30 +80 °C • during storage -30 +80 °C • during installation -30 +80 °C • during installation -30 +80 °C	outer diameter	
material of the wire insulation of cable sheath PUR color of the insulation of data wires DIN 47100 of cable sheath Black bending radius with single bend / minimum permissible with multiple bends / minimum permissible 43 mm with continuous bending 75 mm number of bending cycles 3000000 tensile load / maximum 200 N weight per length 45 kg/km ambient conditions ambient temperature of during storage -30 +80 °C 	of cable sheath	5.4 mm
• of the wire insulationPVC• of cable sheathPURcolor-• of the insulation of data wiresDIN 47100• of cable sheathBlackbending radius-• with single bend / minimum permissible21.6 mm• with multiple bends / minimum permissible43 mm• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient conditions-ambient temperature • during operation-30 +80 °C• during installation-30 +80 °C• during installation-30 +80 °C• during installation-30 +80 °C• during installation-30 +80 °C• fre behaviorflame resistant according to IEC 60332-1-2	symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
• of cable sheathPURcolorDIN 47100• of cable sheathBlackbending radius21.6 mm• with single bend / minimum permissible21.6 mm• with multiple bends / minimum permissible43 mm• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient temperature-30 +80 °C• during operation-30 +80 °C• during installation-30 +80 °C• during installation-30 +80 °Cfire behaviorfame resistant according to IEC 60332-1-2	material	
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• of the insulation of data wiresDIN 47100• of cable sheathBlackbending radius21.6 mm• with single bend / minimum permissible21.6 mm• with multiple bends / minimum permissible43 mm• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient conditions	of cable sheath	PUR
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• with single bend / minimum permissible21.6 mm• with multiple bends / minimum permissible43 mm• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient conditions30 +80 °C• during storage-30 +80 °C• during installation-30 +80 °C	of cable sheath	Black
• with multiple bends / minimum permissible43 mm• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient conditions-30 +80 °C• during operation-30 +80 °C• during storage-30 +80 °C• during installation-30 +80 °Cfire behaviorflame resistant according to IEC 60332-1-2	bending radius	
• with continuous bending75 mmnumber of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient conditionsambient temperature-30 +80 °C• during storage-30 +80 °C• during transport-30 +80 °C• during installation-30 +80 °Cfire behaviorflame resistant according to IEC 60332-1-2	 with single bend / minimum permissible 	21.6 mm
number of bending cycles3000000tensile load / maximum200 Nweight per length45 kg/kmambient conditionsambient temperature• during operation-30 +80 °C• during storage-30 +80 °C• during transport-30 +80 °C• during installation-30 +80 °Cfire behaviorflame resistant according to IEC 60332-1-2	 with multiple bends / minimum permissible 	43 mm
tensile load / maximum200 Nweight per length45 kg/kmambient conditionsambient temperature• during operation-30 +80 °C• during storage-30 +80 °C• during transport-30 +80 °C• during installation-30 +80 °Cfire behaviorflame resistant according to IEC 60332-1-2	 with continuous bending 	75 mm
weight per length45 kg/kmambient conditionsambient temperature• during operation• during storage• during storage• during transport• during installation-30 +80 °C• during installation-30 +80 °Cfire behavior	number of bending cycles	300000
ambient conditions ambient temperature • during operation • during storage • during transport • during installation • during installation fire behavior	tensile load / maximum	200 N
ambient temperature• during operation• during storage• during storage• during transport• during installation• during installation• fire behaviorfire behavior	weight per length	45 kg/km
• during operation-30 +80 °C• during storage-30 +80 °C• during transport-30 +80 °C• during installation-30 +80 °Cfire behaviorflame resistant according to IEC 60332-1-2	ambient conditions	
• during storage -30 +80 °C • during transport -30 +80 °C • during installation -30 +80 °C fire behavior flame resistant according to IEC 60332-1-2	ambient temperature	
• during transport -30 +80 °C • during installation -30 +80 °C fire behavior flame resistant according to IEC 60332-1-2	during operation	-30 +80 °C
• during installation -30 +80 °C fire behavior flame resistant according to IEC 60332-1-2	during storage	-30 +80 °C
fire behavior flame resistant according to IEC 60332-1-2	during transport	-30 +80 °C
	during installation	-30 +80 °C
class of burning behaviour / according to EN 13501-6 Eca	fire behavior	flame resistant according to IEC 60332-1-2
	class of burning behaviour / according to EN 13501-6	Eca

	-
chemical resistance	
• to mineral oil	resistant
• to grease	resistant
radiological resistance / to UV radiation	resistant
oduct features, product functions, product components / gen	ieral
product feature	
halogen-free	No
• silicon-free	Yes
andards, specifications, approvals	
JL/ETL listing / 300 V Rating	Yes; CM (only cable without plug)
certificate of suitability	
EAC approval	Yes
eference code	
 according to IEC 81346-2 	WG
according to IEC 81346-2:2019	WGB
ther information / internet links	
nternet link	
 to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
 to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
 to web page: SiePortal 	https://sieportal.siemens.com/
 to website: Image database 	https://www.automation.siemens.com/bilddb
 to website: CAx-Download-Manager 	https://www.siemens.com/cax
 to website: Industry Online Support 	https://support.industry.siemens.com
curity information	
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